

# Postharvest handling and technologies for livestock products

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The 1st All Africa Postharvest Congress

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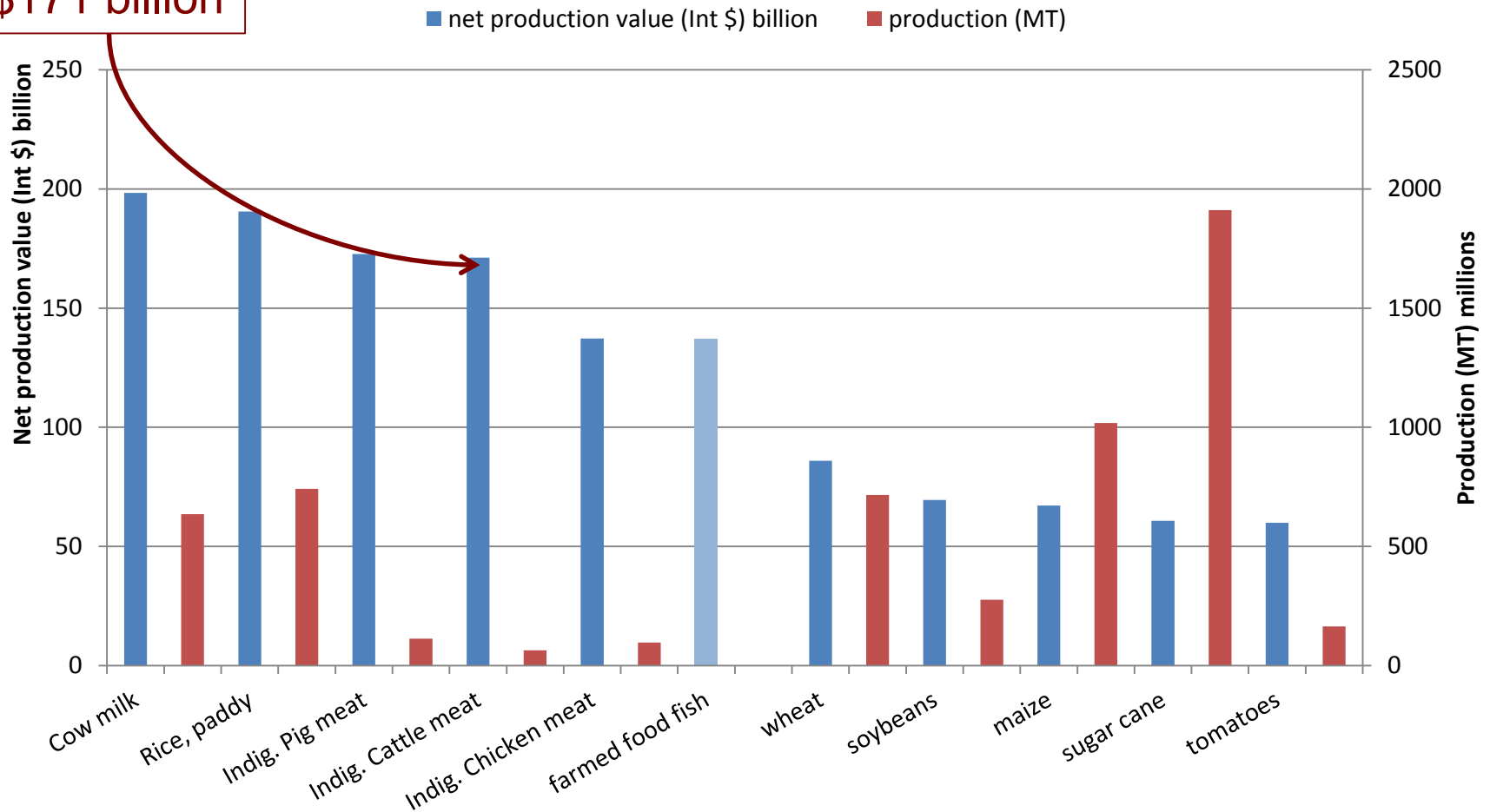
*Nairobi, Kenya*



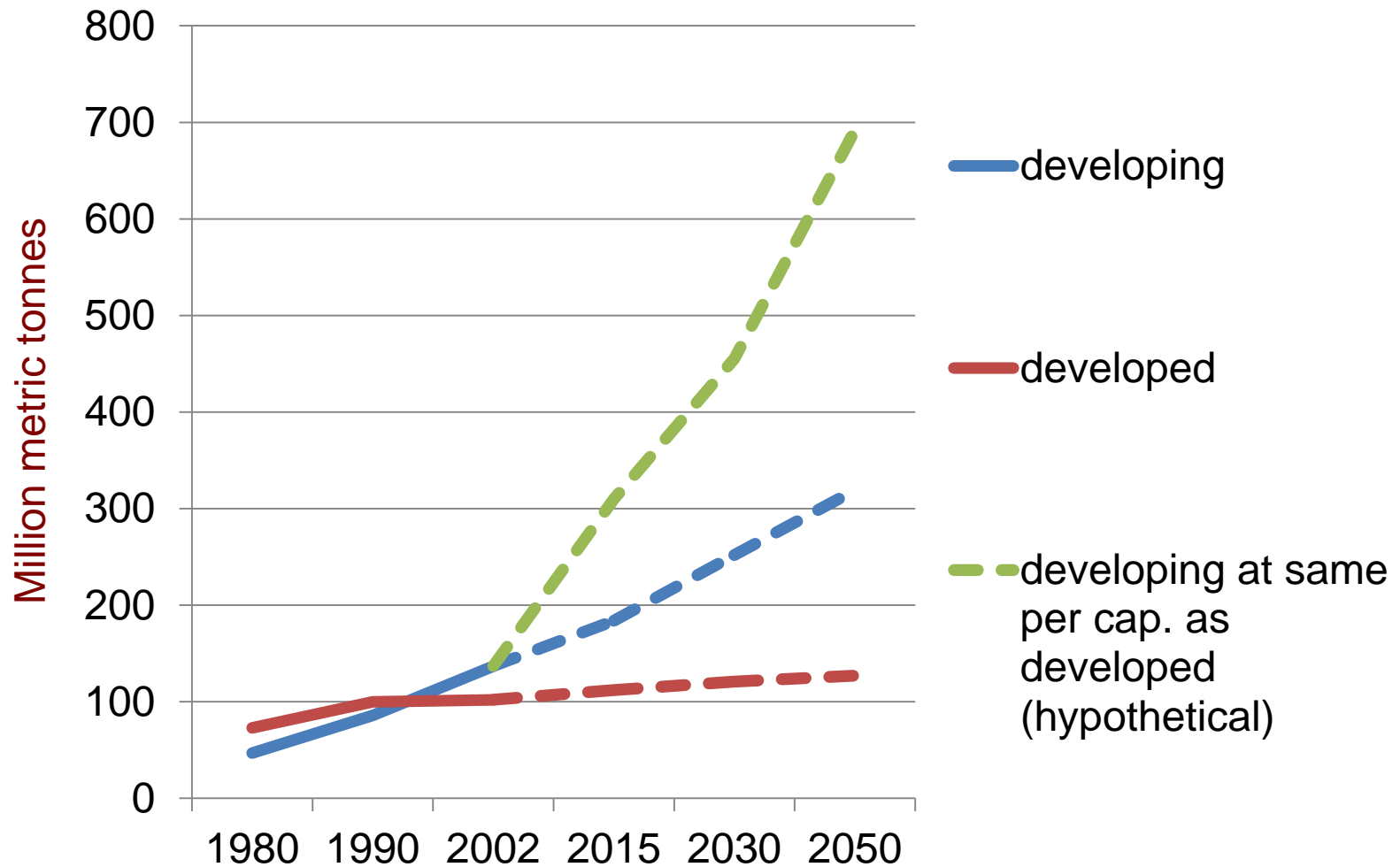
# Animal source foods: 5 of 6 highest value global commodities

(total value of these five: over US Int \$ 700 billion)

Cattle meat  
\$171 billion



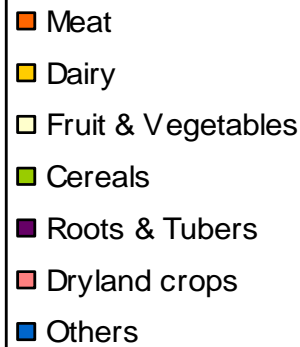
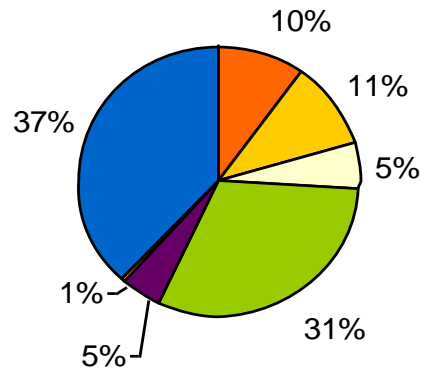
# Gains in meat consumption in developing countries are outpacing those of developed



# Africa: 1 billion consumers: high potential to consume more livestock products

**Europe - 2000**

Diet composition

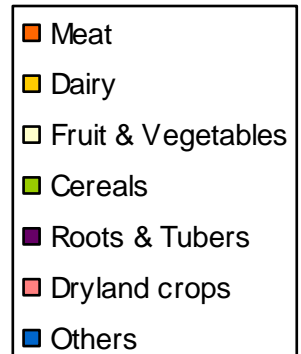
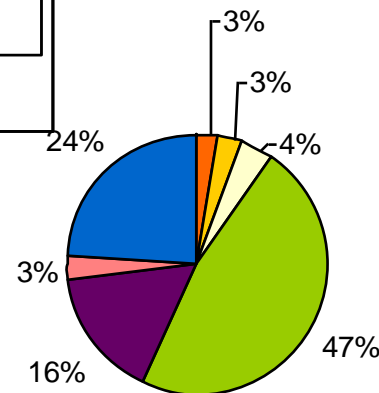


By 2050: 2 billion consumers

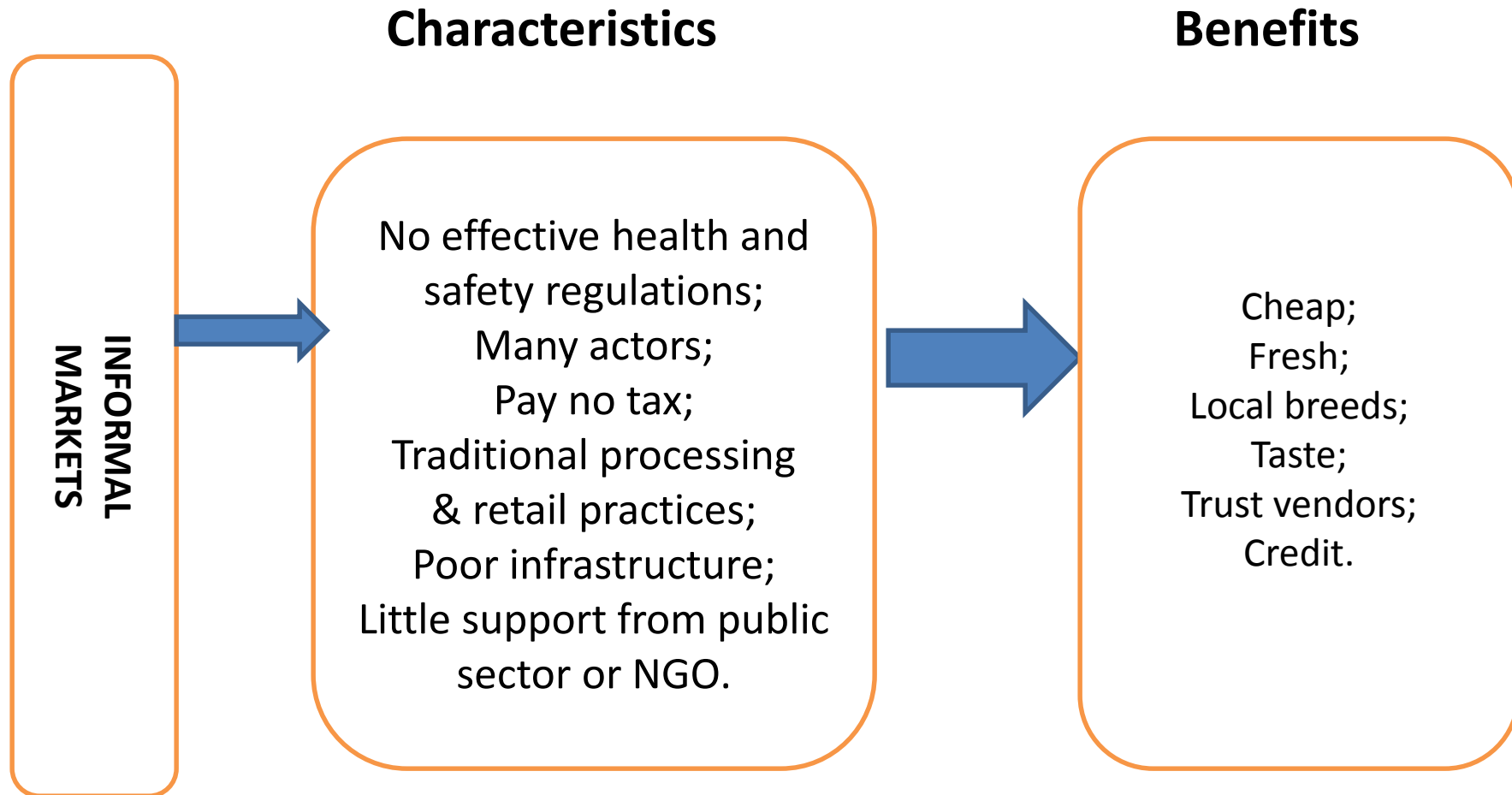
Europe: ASF 21% of diet  
SS Africa: ASF 6% of diet

**SSA - 2000**

Diet composition



# More than 80% of perishables bought from informal markets



# Role of women in post-harvest activities



## Milk (cow)

Production: men (x Nairobi)  
Processing: women  
Marketing: women (x Abidjan)  
Consumed: both

## Milk (goat)

Production: men (w milk)  
Processing: women  
Marketing: women  
Consumed: both

## Beef/goat

Production: men (w assist)  
Processing: m  
Marketing: m (butcher, pub)  
Consumed: both

## Poultry

Production: women  
Processing: women  
Marketing: women  
Consumed: both

## Pigs

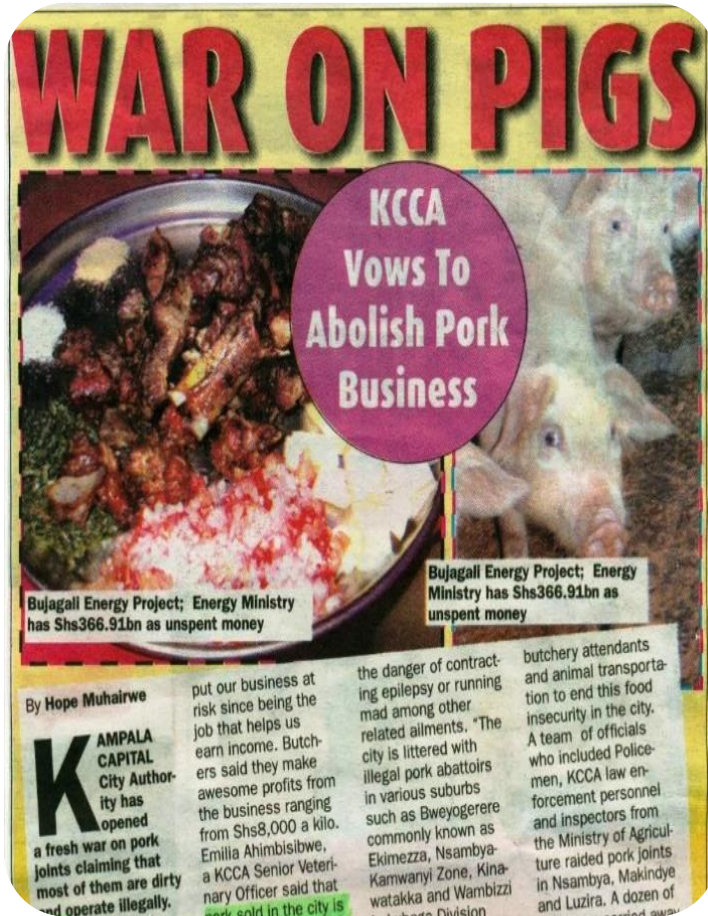
Production: women  
Processing: men  
Marketing: men  
Consumed: both

## Fish, crabs

Fishing: men  
Processing: women  
Marketing: women)  
Consumed: both



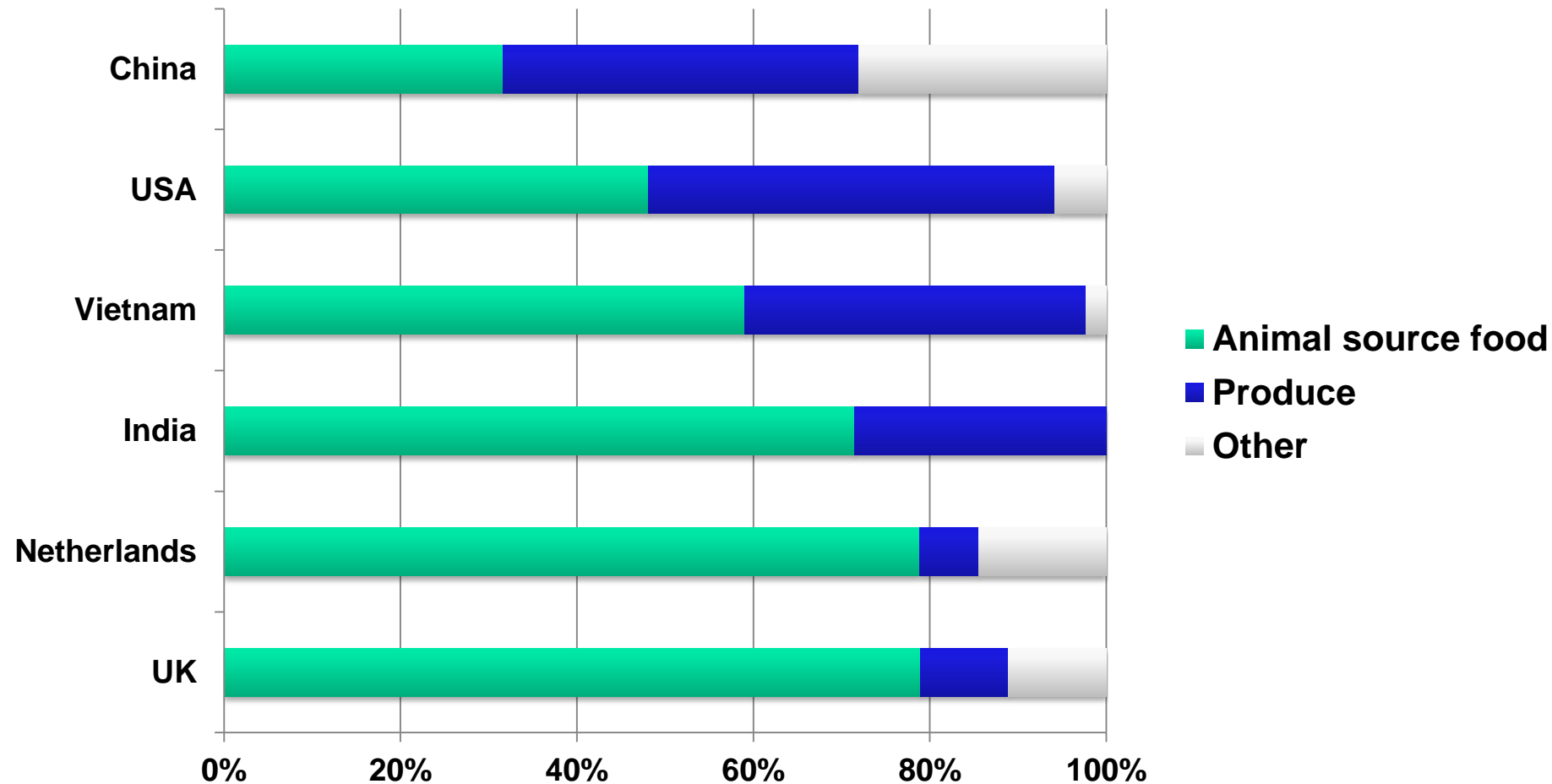
# Increasing concerns over food safety



In 7 developing countries studied

- Many/most reported concern over food safety (**40-97%**)
- Willing to pay **5-10%** premium for food safety
- Younger, wealthier, town-residing, supermarket-shoppers willing to pay more for safety
- Buy **20-40%** less during animal health scares

# Foods implicated in FBD



Painter et al., 2013, Sudershan et al., 2014, Mangan et al., 2014; Tam et al., 2014;  
Sang et al., 2014 ; ILRI, 2016



# Post-harvest solutions

**Add value**

**Create trust**

**Reduce waste**

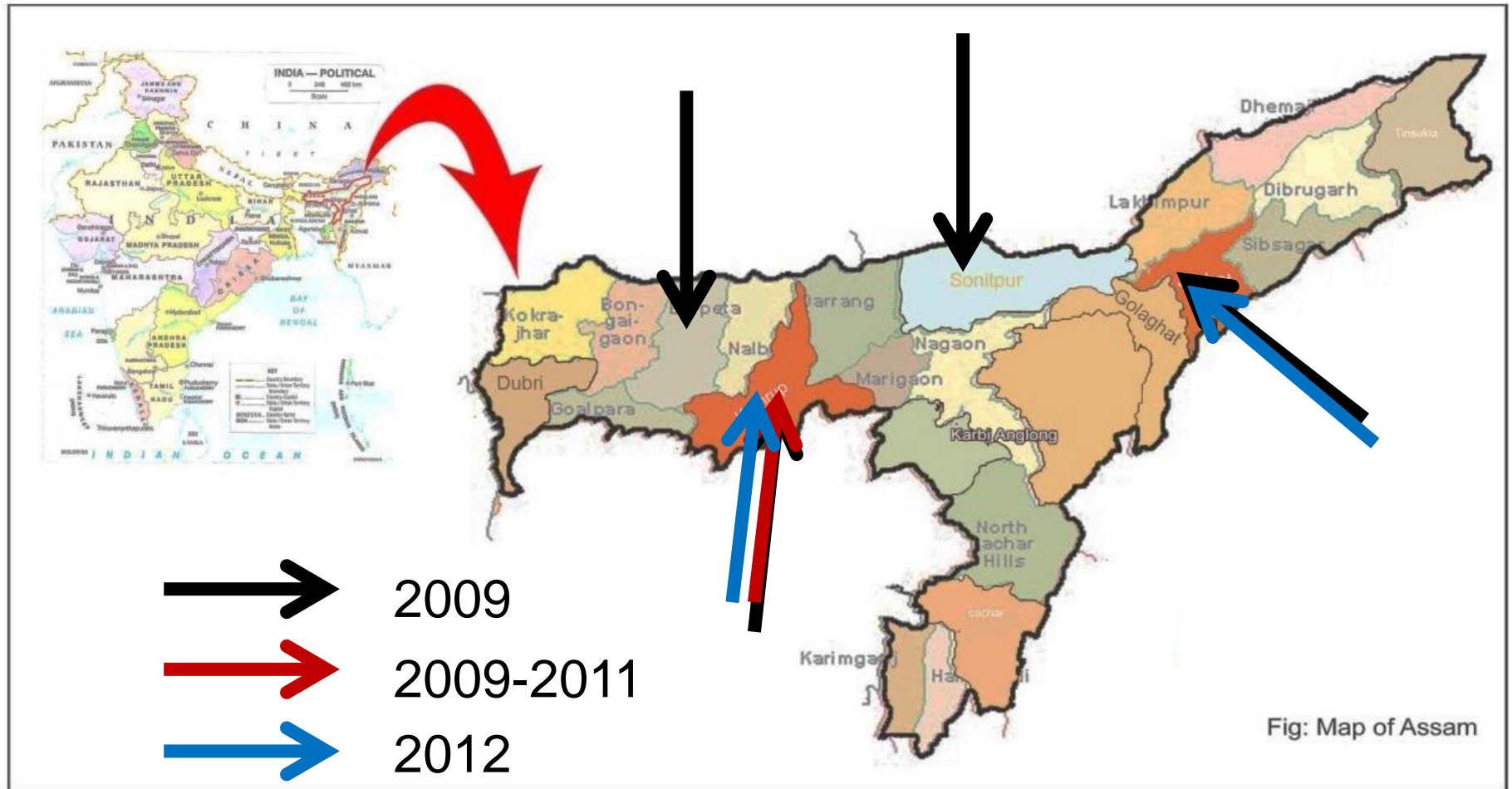
**Create employment for  
women & youth**



# Treated nets: reduce disease



# Dairy value chain in Assam





# Capacity-building, awareness, incentives

- ◆ Training on hygienic milk production and handling
- ◆ Along the dairy value chain: producer, trader
- ◆ Media and information campaigns
- ◆ Peer to peer monitoring & evaluation
- ◆ Incentive: good publicity & membership dairy platform





- Better knowledge & practices.
  - Less mastitis
  - Higher revenues
  - Greater consumer trust in milk
- 
- 70% of traders in Assam are currently registered
  - It benefited the economy by \$6 million a year in Assam
  - 1.5 million consumers benefiting from safer milk

# Improvements are feasible, effective,affordable

- Branding & certification of milk vendors in Kenya:  
led to improved milk safety & saved economy \$33  
million
- Peer training, branding, innovation for Nigerian  
butchers led to 20% more meat samples meeting  
standards and cost \$9 per butcher but resulted in  
savings \$780/per butcher per year from reduced  
COI



*better lives through livestock*

ilri.org